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(54) Database network

(57) A method and apparatus for publishing and receiving events to a network (120). A plurality of "publisher" entities publish information and a plurality of "subscriber" entities request and use the information. Publishers (102, 110, 116) and subscribers (104, 112, 118) are connected to each other through a network (120). The network (120) is a "store and forward" network whose routing is "content-based." The basic quanta of information is called an "event." Publishers (102, 110, 116) publish events and subscribers (104, 112, 118) subscribe to events that match criteria defined by the subscriber (104, 112, 118). Publication

and subscription are performed asynchronously. Publishers (102, 110, 116) and subscribers (104, 112, 118) do not have direct knowledge of each other. The system (100) receives a published event from a publisher (102, 110, 116) and routes the event to all appropriate subscribers (104, 112, 118). Each subscriber (104, 112, 118) is guaranteed to receive all events published on the system (100) if, and only if, they match the subscription criteria specified by the subscriber. A legacy data base can be added to the network by way of a data base connector, which can be a publisher, a subscriber, or both.

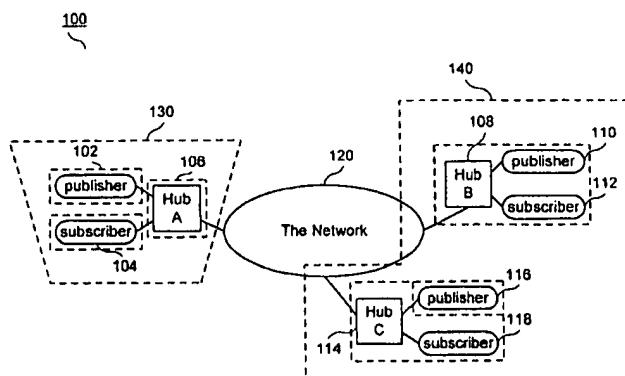


FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
EP 97 10 0673

DOCUMENTS CONSIDERED TO BE RELEVANT									
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)						
A	EP 0 213 276 A (IBM) 11 March 1987 * column 4, line 1 - column 15, line 36; figures 13,14,17,18 *	1,3	G06F17/30						
A	PATENT ABSTRACTS OF JAPAN vol. 018, no. 489 (P-1799), 12 September 1994 & JP 06 161862 A (OKI ELECTRIC IND CO LTD), 10 June 1994 * abstract *	1,3							
A	US 4 745 559 A (WILLIS RICHARD A ET AL) 17 May 1988 * column 4, line 39 - column 6, line 6; figure 1 *	1,3							
A	EP 0 593 062 A (SIEMENS IND AUTOMATION INC) 20 April 1994 * column 2, line 43 - column 3, line 49; figure 1 *	1,3							
A	EP 0 258 867 A (WANG LABORATORIES) 9 March 1988 * column 2, line 12 - column 5, line 4; figure 1 *	1,3	TECHNICAL FIELDS SEARCHED (Int.Cl.6) G06F						
<p>The present search report has been drawn up for all claims</p> <table border="1"> <tr> <td>Place of search BERLIN</td> <td>Date of completion of the search 21 October 1998</td> <td>Examiner Deane, E</td> </tr> <tr> <td colspan="2">CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</td> <td>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</td> </tr> </table>				Place of search BERLIN	Date of completion of the search 21 October 1998	Examiner Deane, E	CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document
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